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UNIVERSITY OF IOWA STUDIES

First Series, No. 46 April 1, 1921

SERIES ON AIMS AND PROGRESS OF RESEARCH, VOL. I, No. 10

SCHEDULE OF DISSERTATIONS

of

APPROVED CANDIDATES FOR ADVANCED DEGREES WITH MAJOR AND MINOR SUBJECTS

PUBLISHED BY THE UNIVERSITY, IOWA CITY

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SCHEDULE OF DISSERTATIONS

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This schedule, approved March 15, 1921, is published primarily as a report to the graduate students, the graduate faculty, and the Iowa State Board of Education.

The 596 students registered in the Graduate College during the current year have been divided as follows:

"Approved Candidates for Degrees," 161
- Doctor of Philosophy, 56
- Master of Arts, 62
- Master of Science, 43

"Candidates for degrees not yet approved," 298
- Doctor of Philosophy, 37
- Master of Arts, 230
- Master of Science, 31

"Not candidates for degrees," 138

The above classification is based upon the following rule:

"If the student wishes to qualify for a degree and designates a major and a minor subject of interest, the department in which he wishes to major becomes his adviser. This department is held responsible for arrangement and approval of his schedule, for noting his undergraduate qualifications, for observing the character of his work as he progresses in his major and minor courses, and for conferring with him from time to time with reference to specialization and research. When the department is assured that the student has made a satisfactory beginning in the investigation of a problem that he is qualified to pursue and announces the subject of his thesis to the Graduate Council, the approval of such notice makes the student an "approved candidate for a degree."

In so far as this list is an index to the research work in progress at the University, it should be remembered that it does not include the work of graduate students who are yet in the preliminary stages of their problems, nor does it include the subjects of advanced students who are not working for degrees. It is, however, a fair illustration of the main lines of interest in research as the students' problems are usually chosen from the main fields of research by the members of the faculty under whom they are working.

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DOCTOR OF PHILOSOPHY

*Grover Henry Alderman — *Education; Political Science*
The lecture versus the question-and-answer method of class instruction
(Professor Horn†)

Margaret Alterton — *English; Romance Languages*
Poe's critical theories; their sources and development
(Professor Craig)

Alexander V. Arlton — *Zoology; Entomology, Botany*
The lymphatics of the common mole, *Scalops aquaticus*
(Associate Professor Stromsten)

Robert Ray Aurner — *English Literature; English Language*
A history of the structure of the English sentence (Professor Knott)

Gerald Clifford Baker — *Water and Sanitary Chemistry; Bacteriology, Physiological Chemistry*
Water softening by exchange of bases (Professor Bartow)

*Eugene Manasseh Berry — *Mathematics; Physics*
Diffuse reflection (Associate Professor Baker)

Estella May Boot — *English Literature; English Language*
The descriptive technique in Shakespeare and in his sources; a comparison (Associate Professor Hunt)

Beulah B. Briley — *Economics; Sociology*
The economic efficiency of the single family as a household unit
(Associate Professor Knight)

Frederick Warner Brown — *Psychology; History, Philosophy*
Some phases of the psychology of speech (Professor Seashore)

Herman H. M. Brueckner — *Philosophy; Psychology*
Schleiermacher's significance for the church of to-day
(Professor Patrick)

*Cordia C. Bunch — *Psychology; Physics*
The measurement of acuity of hearing throughout the tonal range
(Professor Seashore)

Catherine Aloysius Burns — *English Literature; English Language*
A study of the sources of J. H. Newman's poetry
(Associate Professor Thompson)

*Harold Laverne Camp — *Education; Physics*
Scales for measuring results of physics teaching
(Associate Professor Ashbaugh)

Martin Cone — *Political Science; Economics*
Labor in national politics since 1872 (Assistant Professor Porter)

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*The asterisk indicates candidates whose degrees have been conferred since July 1, 1920.

†Names of professors designate chairmen of committees under whose supervision the dissertation is written.

CHARLES CROFUTT *Experimental Physics; Mathematics, Theoretical Physics*

Investigation of the absorption and emission spectra of the K and L series of tungsten (Professor Stewart)

HARMON O. DEGRAFF *Sociology; Psychology*

Juvenile delinquency in Iowa (Assistant Professor Haynes)

*VICTORIANO D. DIAMONON *Political Science; Sociology*

The development of self-government in the Philippine Islands (Professor Shambaugh)

CARL IMMANUEL ERICKSON *Psychology; Sociology*

The basic factors in the human voice (Professor Seashore)

SORENUS J. M. P. FOGDALL *American History; European History*

Diplomatic relations between the United States and Denmark (Professor Benjamin)

*RAYMOND ALBERT FRENCH *Botany; Zoology*

Apogamous reproduction of *Lactuca Ludoviciana* (Nutt.) Riddell (Professor Wylie)

EARL STANFIELD FULLBROOK *Sociology; Economics*

The Red Cross in Iowa (Assistant Professor Haynes)

*AUBREY WARD GOODENOUGH *English Literature; Sociology, Philosophy*

Henry Arthur Jones — a study in dramatic compromise (Professor Craig)

*CHESTER ARTHUR GREGORY *Education; Psychology*

A critical study of the data bearing on the grading of the elementary curriculum (Professor Horn)

HENRY MAGNUS HALVERSON *Psychology; Education*

The rôle of intensity in wave-phase localization of sound (Professor Seashore)

HARRY BRYANT HART *Physical Chemistry; Organic Chemistry, Physics*

The electromotive forces and free energy relations of certain alkali halides in aqueous and alcoholic solution (Professor Pearce)

*HORNELL NORRIS HART *Child Welfare; Sociology*

Selective migration as a factor in child welfare in the United States with special reference to Iowa (Professor Baldwin)

CHARLES DEE JOHNSON *Sociology; Economics*

Relation of negro problem to education in the South (Professor Case)

ROYAL EDGAR JEFFS *Plant Physiology; Plant Ecology, Zoology*

The effects of external conditions on the rate of growth of root-hairs (Assistant Professor Farr)

WILHELMINE KOERTH *Psychology; Education*

Certain factors in the intelligence rating of college students (Professor Seashore)

SCEVA BRIGHT LAUGHLIN *American History; Education*

Missouri politics during the Civil War (Professor Schlesinger)

ERNEST EARL LINDSEY — *Education; Psychology*
Problems of school finance (Professor Russell)

ISRAEL MAIZLISH — *Theoretical Physics; Mathematics*
On the optical constants of metallic crystals of various classes (Professor Sieg)

GEORGE NEWTON MENDENHALL — *Philosophy; Education*
A curriculum for character training (Professor Starbuck)

FLORA TARISSA MERCER — *Psychology of Music; Music*
The measurement of pitch intonation (Professor Seashore)

GLENN NEWTON MERRY — *Psychology; Economics, Public Speaking*
Voice inflection in speech (Professor Seashore)

RALPH WALDO NOYER — *Education; Latin, Psychology*
Financial management and control of normal schools (Professor Russell)

JOHN FRANKLIN REILLY — *Mathematics; Physics*
On a generalization of osculatory interpolation (Professor Rietz)

BRUCE DODSON REYNOLDS — *Animal Biology; Botany*
Individuality as exhibited in the rhizopods, especially Diffulgia (Professor Houser)

EDWARD DANIEL RISSER — *Oto-Laryngology; Pathology*
Tuberculosis of the paranasal sinuses (Professor Dean)

*ELMER L. RITTER — *Education; Psychology*
A building program for the schools of Des Moines, Iowa (Professor Russell)

BENJAMIN WELBOURNE ROBINSON — *Psychology; Commerce*
Measurement of natural capacity and aptitude for stenography and typewriting (Professor Seashore)

LEWIS GUY ROHRBAUGH — *Philosophy; Religion*
The modern energy concept in its qualitative aspects (Professor Patrick)

MAX SCHOEN — *Psychology; Aesthetics*
The pitch factor in artistic singing (Professor Seashore)

*WALTER HENRY SCHOEWE — *Physiographic Geology; Mineralogy, Geography*
The origin and history of the extinct Lake Calvin, Iowa (Professor Trowbridge)

WILLIAM SCHRIEVER — *Experimental Physics; Mathematics, Theoretical Physics*
The effect of temperature on the simple rigidity of drawn tungsten wires (Professor Sieg)

HERBERT LEON SEARLES — *Psychology of Religion; Philosophy*
An empirical inquiry into the God-experience of college students (Professor Starbuck)

HAZEL MARTHA STANTON — *Psychology; Aesthetics*
The inheritance of specific musical capacities (Professor Seashore)

JOHN CHRIS STEINBERG *Experimental Physics; Mathematics, Theoretical Physics*

The thickness of thin films and the Hall effect therein (Professor Stewart)

NORRIS ONSLOW TAYLOR *Metallurgy; Economics*

A study of the correlation between resistivity to corrosion and tensile strength in ternary alloys containing lead, zinc, tin, and aluminium (Professor Bartow)

SELINA MARIE TERRY *English Literature; English Language*

The method of descriptive effect in Jane Austen's novels (Associate Professor Hunt)

CARL HOYT TROWBRIDGE *Education; Physics*

The secondary schools of the Methodist Episcopal Church, South; their history and probable future (Professor Russell)

GEORGE DEWEY VANDYKE *Experimental Physics; Mathematics Theoretical Physics*

On the optical constants of certain crystals (Professor Sieg)

OTTO THEODORE WALTER *Paleontology; Zoology*

Paleozoic crustacea of Iowa (Associate Professor Thomas)

FRANK MARK WEIDA *Mathematics; Physics*

The valuation of life annuities with refund of an arbitrarily assigned part of the purchase value (Professor Rietz)

LEROY D. WELD *Experimental Physics; Mathematics, Theoretical Physics*

A new method for the determination of the optical constants of metals in the form of small crystals, with results, especially in the ultra violet (Professor Sieg)

BENJAMIN FRANKLIN ZUEHL *Psychology; Sociology*

The acuity of hearing throughout the pitch range (Professor Seashore)

ROBERT VICTOR ZUMSTEIN *Experimental Physics; Mathematics, Theoretical Physics*

An investigation of the tungsten X-ray emission and absorption spectrum with a vacuum spectroscope (Professor Stewart)

MASTER OF ARTS

IRENE BATCHER *Spanish; French*

The treatment of women in the Spanish ballad as exemplified in the Durán classification (Miss Kelly)

BEATRICE ELIZABETH BEAM *French; Spanish*

The "cheville" in the *Chanson de Roland* (Professor Bush)

HELENE BLATTNER *Public Speaking; Psychology*

Individual differences in articulation and enunciation of speech sounds (Assistant Professor Mabie)

A. IONE BLISS *Child Welfare; Sociology*

Iowa child welfare legislation measured by federal bureau standards, and by children's codes in other states (Professor Baldwin)

MYRL LEWARK BRISTOL — *English Literature; English Language*
Colley Cibber and his critics (Professor Craig)

*FRED D. CRAM — *Education; Psychology*
A course of study in Americanization (Professor Horn)

*HELEN CALDWELL DAVIS — *Education; History*
The effect of raising thought-provoking questions on the rate and comprehension of material read silently (Professor Horn)

MARY ELLEN DONOVAN — *Commerce; English*
The new activities of American banks (Professor Phillips)

AMANDA MAE ELLIS — *English; Latin*
Dryden as a Latin translator (Professor Craig)

ERIK MCKINLEY ERIKSSON — *American History; European History*
The establishment and rise of the Washington Globe; a phase of Jacksonian politics (Professor Schlesinger)

VERGILIUS TURE ANSELM FERM — *Philosophy; Psychology*
Blood sacrifice in early Christian history (Professor Starbuck)

GEORGE JAMES FRANCOIS — *Economics; Political Science*
Aspects of the chain and independent store systems (Professor Ruggles)

MARY LOUELLA GITCHELL — *English; Education*
Chaucer's Frankeleyn — epicurean or royal official? (Professor Knott)

ETHEL ROSE GOLDEN — *Philosophy; Education*
A graded course in English based on the laws of child development (Professor Starbuck)

CLARANCE ALEXANDRE GUILLOT — *French; History*
The influence of Henry Becque on French naturalistic drama (Associate Professor Ward)

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Hawthorne as a critic of literature (Associate Professor Hunt)

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The history of rural free mail delivery in the United States (Associate Professor Pelzer)

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The ability to read among seniors (Assistant Professor Knight)

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Development of perception of visual form in early childhood (Professor Baldwin)

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A classification of the *cognomina* appearing in C. I. L. Vol. IX. (Professor Ullman)

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The legislative history of naturalization since 1861 (Assistant Professor Briggs)

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The characterization of the comedy element in fifty widely used high school plays (Assistant Professor Mabie)

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High school records (Professor Kirby)

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Johnson's theory of poetry as expressed in his *Lives of the English Poets* (Assistant Professor Scott)

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Social, historical, and racial factors in Welsh community and choral singing (Associate Professor Case)

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Duplications in public utilities with special reference to Iowa (Professor Ruggles)

Worcester Warren — *Education; Economics*
A report on the establishment, operation, and results of a septem of educational guidance in East Des Moines high school for the year 1920-21 (Professor Kirby)

MASTER OF SCIENCE

Lela E. Booher — *Internal Medicine; Immunology*
Creatine studies (Professor Howard)

George W. Botteron — *Physical Chemistry; General Chemistry*
A study of the adsorption of various Pleistocene clays for electrolytes (Professor Pearce)

Irvin Cecil Brown — *Physical Chemistry; Mathematics*
The distribution of a solute between water and a second phase consisting of a binary mixture of two completely miscible solvents, each insoluble in water (Professor Pearce)

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The adsorption of organic vapors by colloidal gels (Professor Pearce)

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The migration of acyl from nitrogen to oxygen (Associate Professor Raiford)

*Eva Cresswell — *Botany; Geology*
A photometric study of light and its effect in various plant habitats (Professor Shimek)

Mary J. Erickson — *Bacteriology; Pathology*
A selective medium for the isolation of the gonococcus (Professor Albert)

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A study of the equilibrium between iodine and barium iodide in aqueous solution by the distribution method (Professor Pearce)

*Adolph Emil Theodore Fant — *Physics; Mathematics*
The intensity of light transmitted through a slit as a function of the width and the depth of the slit, and of the wave length of the light (Professor Sieg)

Louise Fillman — *Geology; Mineralogy*
On the so-called limestone conglomerates of the Northern Black Hills of South Dakota (Assistant Professor Runner)

FRED LINDER FITZPATRICK — *Zoology; Paleontology*
The Anseres of Iowa (Assistant Professor Stoner)

MARTIN ERNEST FLENTJE — *Industrial Chemistry; Electrical Engineering*
Effect of temperature on the rate of removal of calcium and magnesium salts in water softening (Professor Bartow)

WARREN FOSTER — *Oto-Laryngology; Anatomy, Pathology*
The development of the frontal and sphenoidal sinuses (Professor Dean)

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Effect of temperature on the rate of removal of calcium and magnesium salts in water softening (Professor Bartow)

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The potential of the barium amalgam electrode and the free energy of dilution of barium chloride solutions (Professor Pearce)

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The effect of weight in the aromatic radical in the migration of acyl from nitrogen to oxygen (Associate Professor Raiford)

LLOYD G. HOWARD — *Oto-Laryngology; Anatomy, Pathology*
Frontal sinus diseases in infants and young children (Professor Dean)

MARIE MATILDA JOHNSON — *Mathematics; Education*
The generalized mean value functions (Associate Professor Chittenden)

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The migration of acyl; effect of the relative positions of the hydroxide and amino groups (Associate Professor Raiford)

CECIL CAIN JONES — *Oto-Laryngology; Anatomy, Pathology*
Results of careful determinations of high and low limits in otologic cases (Professor Dean)

RUDOLPH HENRY JORDAN — *General Geology; Pleistocene Geology*
Some phases of the loess of Iowa (Professor Kay)

PAULINE KIMBALL — *Zoology; Botany*
The development of certain veins and lymphatics in turtles (Associate Professor Stromsten)

CLARENCE ELWIN LANE — *Experimental Physics; Mathematics*
Determination of the minimum audible intensity of sound as a function of the frequency (Assistant Professor Hewlett)

HERMAN PETER LANKELMA — *Organic Chemistry; Physical Chemistry*
Steric hindrance in the acylation of aminophenols (Associate Professor Raiford)

EDWARD LARSON — *Physiological Chemistry; Organic Chemistry*
The hippuric acid synthesis (Professor Rockwood)

SARA LEWIS — *Botany; Entomology*
Development of the islet in foliage leaves (Professor Wylie)

MARCELLA LINDEMAN *Experimental Physics; Mathematics*
An investigation into the behavior of various dielectrics when carrying alternating currents (Assistant Professor Hewlett)

JOHN TIPTON LONSDALE *Economics Geology; Mineralogy, Chemistry*
The geology and ore deposits of Bedrock Gulch, Colorado (Professor Kay)

*ELIZABETH MAXWELL *Botany; English*
The phytogeography of an Iowa grove (Professor Shimek)

*LEWIS BENJAMIN MILLER *Physical Chemistry; Mathematics*
Some colloidal properties of pleistocene clays (Professor Pearce)

CATHERINE MULLIN *Zoology; Botany*
Tube-dwelling worms from Barbados and Antigua

FRANCES JUNE NELSON *Zoology; Botany*
Appendages of Echinoderms (Professor Nutting)

JAMES VAUGHN O'LEARY *Physical Chemistry; Industrial Chemistry*
The solubility of bromine in aqueous solutions of ternary bromides (Professor Pearce)

HERBERT RUDOLPH OLESON *Oto-Laryngology; Anatomy, Pathology*
Sphenoidal sinus disease in infants and young children (Professor Dean)

MATILDA PAUL *Geology; Education*
The minnesula formations of the Northern Black Hills of South Dakota (Assistant Professor Runner)

LORA LEE ROBERTSON *Botany; Chemistry*
The physiology of root infection (Assistant Professor Farr)

JAMES EARL RUSSELL, JR. *Pediatrics; Bacteriology*
The occurrence of diphtheria bacilli and "diphtheriods" in infants and children (Professor Byfield)

RUTH ELLEN SAILOR *Botany; Entomology*
Cicatrization of foliar wounds in the Rosaceae (Professor Wylie)

HARMON L. STANTON *Oto-Laryngology; Anatomy, Pathology*
The frequency of tone gaps and islands in otologic practice (Professor Dean)

ANNA THOMSEN *Mathematics; Physics*
Certain functional equations yielding solutions with predetermined constants (Dr. Wilson)

M. CLIFFORD WADDELL *Inorganic Chemistry; Physical Chemistry*
Solubility of inorganic substances in liquid sulphur dioxide (Assistant Professor Bond)

CHESTER KEELER WENTWORTH *Physiographic Geology; Petrology*
Quantitative studies of the shapes of pebbles (Professor Trowbridge)

ROBERT EDWARD WILKIN *Industrial Chemistry; Physical Chemistry; Organic Chemistry*
Effect of bomb corrosions on accuracy of calorimetric determinations (Associate Professor Olin)

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